

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

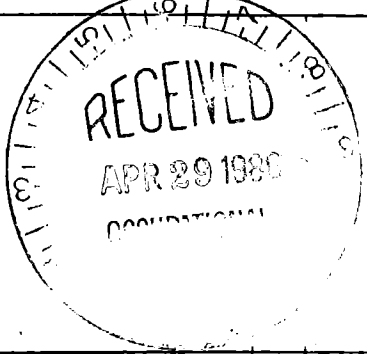
MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Dexter Corporation, Hysol Division		EMERGENCY TELEPHONE NO. 415/687-4201
ADDRESS (Number, Street, City, State, and ZIP Code) 2850 Willow Pass Road (P.O. Box 312), Pittsburg, California 94565		
CHEMICAL NAME AND SYNONYMS TWO-PART ALIPHATIC AMINE CURED EPOXY SYSTEM		TRADE NAME AND SYNONYMS EA 9309.3 NA Part A
CHEMICAL FAMILY Epoxy	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%		
PIGMENTS			
CATALYST			
VEHICLE Epoxy Resins	96		
SOLVENTS			
ADDITIVES Filler	4		
OTHERS			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES		%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Decompose before boiling	SPECIFIC GRAVITY (H ₂ O=1)	1.1
VAPOR PRESSURE (mm Hg.)	NA	PERCENT VOLATILE BY VOLUME (%)	<1%W
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (_____ =1)	NA
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	Viscous beige paste		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	>200°F TCC	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA	Water spray, chemical foam, dry chemicals.			
SPECIAL FIRE FIGHTING PROCEDURES	Wear self-contained breathing apparatus when fighting fires in confined areas.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	Dense smoke may be liberated.			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	Not established.
EFFECTS OF OVEREXPOSURE May cause skin irritation and possible allergic reactions. Prolonged and repeated contact may cause sensitization which will result in allergic reactions.	
EMERGENCY AND FIRST AID PROCEDURES Flush skin and eye contact with plenty of water. Wash skin thoroughly with soap and water, rubbing alcohol or hand cleaner. Do not use solvents. Remove soiled clothing and wash before reuse. If irritation persists or increases, see physician	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)		Strong oxidizing agents, strong Lewis or mineral acids.	
HAZARDOUS DECOMPOSITION PRODUCTS		CO, NOx, aldehydes, acids and undetermined organics.	
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Avoid mixing resin and curing agent in
	WILL NOT OCCUR		batches greater than one pound total. Do not heat mixed adhesive above 75°F unless curing surfaces to be bonded. Failure to observe cautions may result in excessive heat build-up with the release of toxic gases.

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Wear protective clothing, gloves and safety glasses.	
Scrape up and transfer to metal container. Wipe up remaining residue with solvents, observing solvent flammability cautions, or use detergent.	
WASTE DISPOSAL METHOD Dispose of as hazardous waste according to D.O.T. hazard class. If not regulated by D.O.T., dispose of as ORM-E. Disposal method can be land burial or chemical incineration as regulated by all governmental agencies.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) Not required with good industrial ventilation.		
VENTILATION	LOCAL EXHAUST Recommended	SPECIAL
	MECHANICAL (General) Recommended	OTHER
PROTECTIVE GLOVES Impervious plastic or rubber		EYE PROTECTION Safety glasses or goggles
OTHER PROTECTIVE EQUIPMENT As needed to protect skin and clothing		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Keep product cool in accordance with label instructions.	
OTHER PRECAUTIONS Follow recommended curing schedule.	

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ADDRESS (Number, Street, City, State, and ZIP Code) 2850 Willow Pass Road (P.O. Box 312), Pittsburg, California 94565		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS EA 9309.3 NA Part B
CHEMICAL FAMILY Alkylamines	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	
PIGMENTS		
CATALYST		
VEHICLE Alkylamines	98	
SOLVENTS		
ADDITIVES	2	
OTHERS		

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Approx.	400	SPECIFIC GRAVITY (H ₂ O=1)	1.00
VAPOR PRESSURE (mm Hg.)		< 0.3	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	Approx.	5	EVAPORATION RATE (—=1)	< 0.1
SOLUBILITY IN WATER	Almost complete			
APPEARANCE AND ODOR Transparent blue liquid with ammonical odor.				

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	> 200°F TCC	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Foam, CO ₂ water spray, dry chemicals			
SPECIAL FIRE FIGHTING PROCEDURES Self contained breathing apparatus should be worn when fighting fires in confined areas.				
UNUSUAL FIRE AND EXPLOSION HAZARDS Dense smoke may be liberated.				

SECTION V - HEALTH HAZARD DATA

Corrosive to skin and eyes. Can cause chemical burns to skin and severe chemical burns to eyes. Vapors irritating and may cause chest discomfort and bronchitis symptoms. Moderately toxic by ingestion. Give water or milk if swallowed, do not induce vomiting. Get medical help.
 Skin contact - flush with water. Then wash thoroughly with soap and water.
 Eye contact - flush with water immediately 15 minutes and get medical help.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents, strong Lewis or mineral acids.			
HAZARDOUS DECOMPOSITION PRODUCTS CO, NOx, aldehydes, acids and undetermined organics.			
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Avoid mixing resin and curing agent in
	WILL NOT OCCUR		batches greater than one pound total. Do

not heat mixed adhesive above 75°F unless curing surfaces to be bonded. Failure to observe cautions may result in excessive heat build-up with the release of toxic gasses

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Wear protective clothing, gloves and safety glasses. Cover with absorbent material; then Scrape up and transfer to metal container. Wipe up remaining residue with solvents, observing solvent flammability cautions, or use detergent.	
WASTE DISPOSAL METHOD	
Dispose of as hazardous waste according to D.O.T. hazard class. If not regulated by D.O.T., dispose of as ORM-E. Disposal method can be land burial or chemical incineration as regulated by all governmental agencies.	

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Not required with good industrial ventilation.		
VENTILATION	LOCAL EXHAUST Recommended	SPECIAL
	MECHANICAL (General) Recommended	OTHER
PROTECTIVE GLOVES Impervious plastic or rubber		EYE PROTECTION Safety glasses or goggles
OTHER PROTECTIVE EQUIPMENT As needed to protect skin and clothing		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Keep product cool in accordance with label instructions.	
OTHER PRECAUTIONS	Follow recommended curing schedule.